

MIT's
Oldest and Largest
Newspaper



WEATHER, p. 2

TUE: 29°F | 24°F
Snow.
WED: 32°F | 18°F
Snow/sleet.
THU: 29°F | 11°F
Partly cloudy.

Volume 131, Number 1

tech.mit.edu

Tuesday, February 1, 2011

In Johnson, there's trouble a-Bruin



Nicholas D. Sisler '11 (MIT No. 2) plays in the MIT vs. Bruins Alumni game Saturday. The Bruins alumni won 11-9, and the proceeds of the game benefitted the Boston Bruins Foundation and the MIT Men's Ice Hockey Team.

ANDREW SWAYZE—THE TECH

Varsity cuts, 18 months afterwards

Reflections on the decision to cut eight sports

By Evan Moore
STAFF REPORTER

"It was the hardest decision I ever had to make in a leadership role."

Julie Soriero sits in her office on a bright Tuesday morning. As head of the MIT Department of Athletics, Physical Education, and Recreation (DAPER) for the past four years, she was heavily involved in the decision to cut eight varsity sports — Women's and Men's Gymnastics, Women's and Men's Hockey, Golf, Alpine Skiing, Wrestling, and Pistol — announced Thursday, April 23, 2009. The decision would help save DAPER nearly \$1.5 million, as part of an Institute-wide effort to cut budgets in the face of a deep recession. Now, eighteen months later, she muses over how upsetting the decision was at the time.

"It's the last thing any athletic director wants to do. You take a position as an athletic director to build programs, and help programs be successful. Your intent is to not cut them," she said.

Soriero speaks from experience. Coming to MIT in 2007 after nine years in Colorado College's athletic department, Soriero had fulfilled roles in all aspects of athletics, from Women's Basketball Coach to Athletic Director. She played field hockey, basketball, and lacrosse as an undergraduate at Pennsylvania State University. She's seen the highs and lows of being an athlete, and she knows how important sports are to students. Soriero knew what pain her decision would cause — she expected there to be a lot of emotions, and she was right.

Students reflect on disappointment, shock

Jillian R. Reddy '11 was a sophomore on the

Varsity cuts, Page 13

Looking in-depth at orientation plans

Students take a critical stance, but UAAP plans still not final

By Robert McQueen
NEWS EDITOR

Following the Undergraduate Association emergency meeting last week, several student groups have responded in an effort to preserve Residential Exploration (REX) during next year's orientation. While final changes to Orientation have not yet been confirmed, a reduced schedule could lead to timing conflicts, which could cut back on available time during the REX period. The final

scheduling decision rests with Chancellor Phillip L. Clay PhD '75, and will be made by mid-February, according to Julie B. Norman, Senior Associate Dean and Director of Undergraduate Academic and Advising Programming.

In response to the proposed changes to Orientation, incoming and outgoing members of the Dormitory Council (DormCon) convened to discuss how to address their concerns to Clay and Norman. The meeting resulted in a public letter addressed to Clay

that called for the restoration of a full-length REX and student inclusion in future administrative talks concerning Orientation.

Dean of Undergraduate Education Daniel E. Hastings PhD '80 also wrote a letter, but in response to last week's *Tech* article on REX. "Though we will look for ways to shorten the overall Orientation period, we do not plan to shorten the REX period in the coming year," Hastings wrote.

UA President Vrajesh Y. Modi '11 said that the UA does not cur-

rently have a stance on the UAAP's proposal to shorten Orientation. He added that the UA will have a

INSIDE
Timeline of Orientation since '98, p. 18

better-defined stance following the Wednesday UA executive meeting. On Thursday, DormCon will hold its first meeting of the spring semester. DormCon President Christina R. Johnson '11 said

Orientation, Page 18

The Tech's Year in Review

History gives perspective. Knowing how things have changed over time can powerfully inform how things will be. At a time when MIT, and the world at large, is facing the continued pressure of a new financial reality, it helps to look back to understand how we got to where we are today.

Inside this issue is *The Tech's* annual Year in Review insert, a collection of stories, columns, and photos about some of 2010's most important campus, national, and international events. No matter where you stand on the issues, we hope that this content serves as more than just a historical record. Use it for perspective — on the present and on the future.

IN SHORT

Want your voice heard about Orientation changes? Speak to your DormCon representatives at the DormCon meeting this Thursday at 5 p.m. in W20-450

The Chief Justice of Ghana is visiting MIT today and will be giving a talk at 5 p.m. in Building E51.

Several hundred people marched in Harvard Square yesterday to protest Egyptian President Hosni Mubarak's response to uprisings in that country.

More snow is on the way! Snow is expected today, followed by a wintry mix of snow, ice, and sleet tomorrow. See weather, p. 2.

Send news information and tips to news@tech.mit.edu.



MELISSA RENÉE SCHUMACHER—THE TECH

Workers at the Auburn, MA MassWeb facility oversee the printing of *The Tech*. See more of how *The Tech* is made on page 11.

10 SITES YOU'VE NEVER HEARD OF

Digg died, and reddit's getting boring. Here's 10 other ways you can kill time on the Internet. **CAMPUS LIFE, p. 10**

PRESIDENTS ON REX CHANGES

Dorm presidents chime in on the proposed REX changes. **OPINION, p. 4**

HOW DOES MIT MAKE POLICY?

Thinking from the admins' perspective has advantages. **OPINION, p. 5**



SEE HOW THE TECH GETS MADE

What goes in to actually printing *The Tech*? Check out photos from our trip to the printer. **NEWS, p. 11**

BUCKY: THEATER FOR NERDS

R. Buckminster Fuller: The man behind buckyballs and fullerene, dramatized. **ARTS, p. 12**

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OPINION

REX strengthens community bonds

REX, from Page 4

with a living group takes more than just a day, especially when time must be spent figuring out where all the dorms are and how to get to them. Considering that many freshman participate in FPOPs and ASEs, I can see many skipping out, because apparently dorms aren't important enough to devote more than a day to figure them out.

The administration claims this change is about making sure that freshmen are academically ready and not exhausted for class. Maybe my brain's getting foggy from old age, but isn't there half a week between when freshmen move and the start of classes? Maybe we do have "the longest orientation in the country," but so what? Since when is

MIT so concerned about fitting in with everyone else? Part of what I loved about this place was that we weren't all dumped into a freshman dorm like so many of my high school friends. In addition, we had so much freedom to choose where we got to live, that I began to feel like an adult and that the administration respected us enough to make our own decisions. Living with upperclassmen, especially ones I bonded with over a nice, relaxed REX period, made me more academically ready than any official orientation event I attended. They were a source of advice, especially when I was choosing my classes, and not only did they help me with my homework, but some became my best friends. I was happy to pass on the favor when I became one myself.

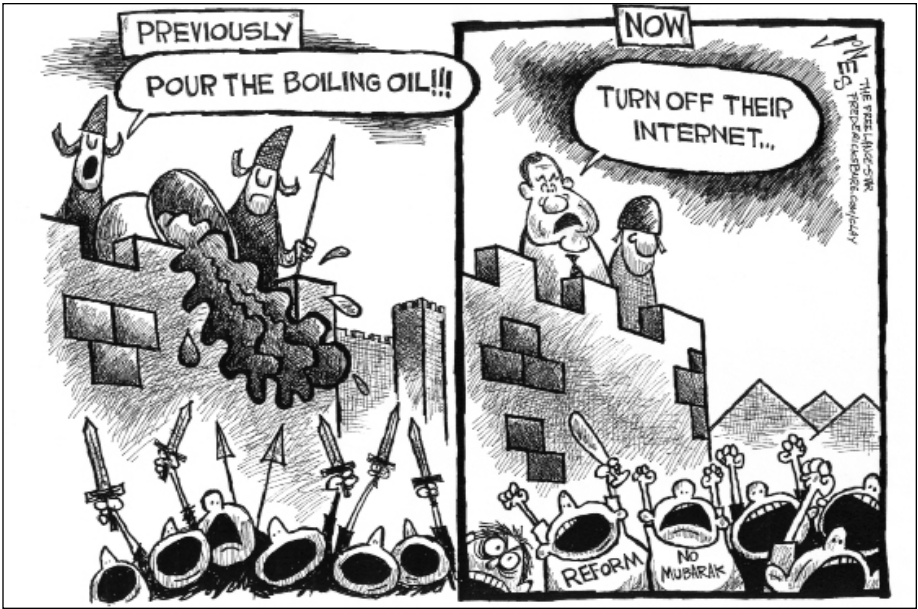
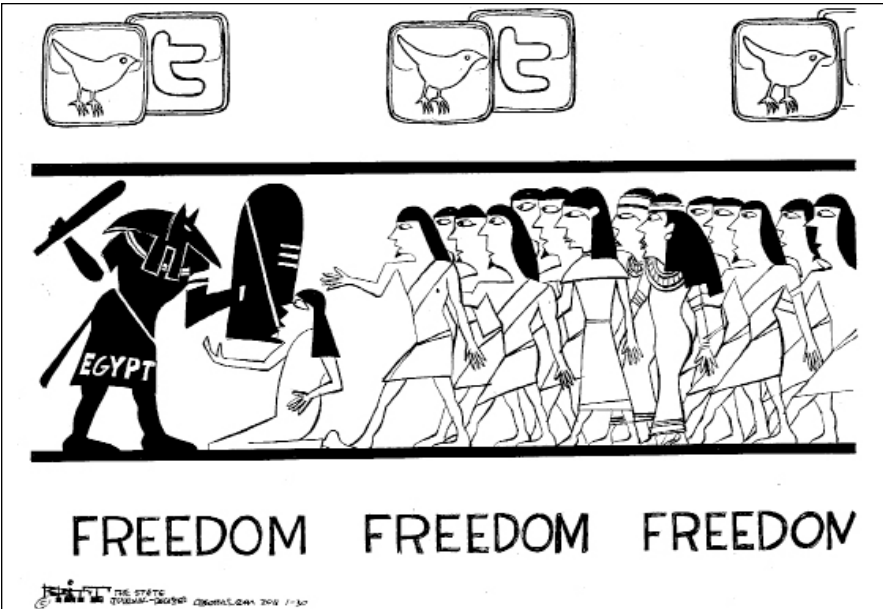
While REX helped me find the perfect

place for me to live as a freshman (and I was sure because I actually had a chance to visit all the dorms, as opposed to during CPW), I did move during IAP of my junior year. I can't imagine how stressful it would be to move in the middle of a term, or be stuck in a place you truly don't want to live while you languish on the waiting list. With all the upperclassmen trying to escape extreme dining prices, how long will it take a freshman to get exactly where they want to be if they don't get it right the first time? It takes more than even the REX period we have now to figure out where to live, so how can that time be cut so short? If you want students to be less exhausted, try making them happier and not needing to pick up and move mid-term. And, if you're worried about the logistics of starting FPOPs on different days, are you

sure you want to transfer that responsibility to the housing office or even mental health services, and make students even more stressed out in the process? Freshmen are already focused on making the transition from high school classes to MIT. It is vital during this time that they have a strong support network, which starts where they live. It will be that much stronger if they really spent time choosing it themselves. There is nothing you can do to make them more "academically ready" than allowing them that freedom.

I'm not even mentioning the importance of REX to the upperclassmen and the dorms themselves. You all know how important it is. Don't let them take it away from you.

Jacqueline Rogoff '10 is a former Vice President of French House and a former resident of East Campus.



TAKE ON A COLUMNIST

Think you have what it takes to tackle a Wall Street Journal argument?

Write for *The Tech's* Opinion section.

We're looking for writers who want to talk about issues of national and local importance.

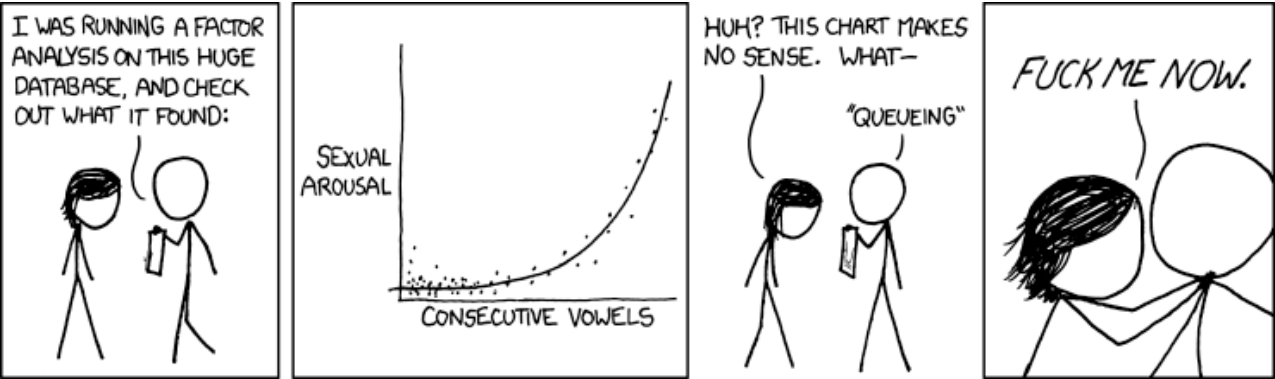
Interested or have an idea?

E-mail opinion@tech.mit.edu

Steal My Comic by Michael Ciuffo

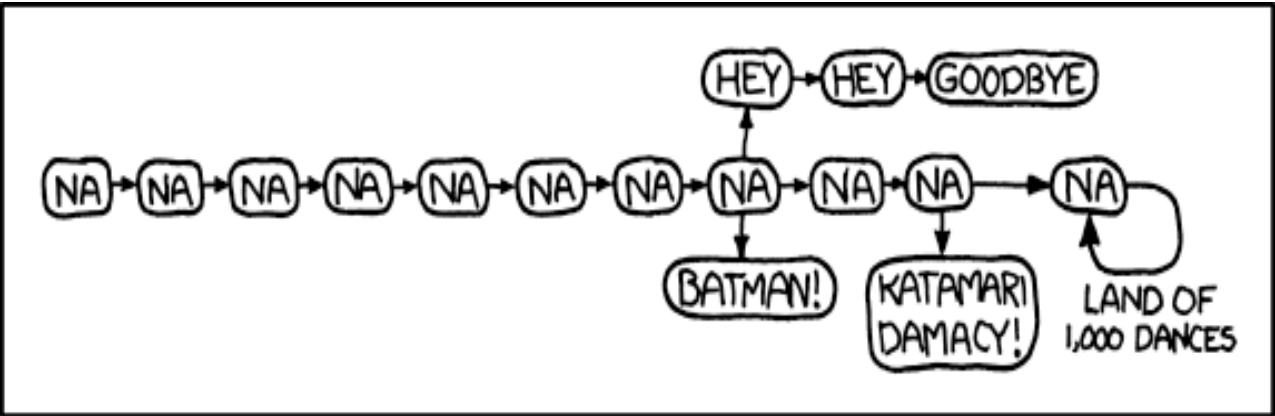


Consecutive Vowels



But the windows! What if there's a voyeur watch!—wait, now I'm turned on too.

Na



hear that there are actual lyrics later on in Land of 1,000 Dances, but other than the occasional 'I said, I've never listened long enough to hear any of them.

Sudoku

Solution, page 13

						9	3	4
	3		8				1	2
		1	3	4	9		6	
				2	4	6		
		3	5	9				
	5		4	7	1	3		
4	9				3		8	
3	1	2						

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Techdoku

Solution, page 13

4	30x			1-
15x		4		
3-		12x		8+
6+				
15+				

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1 through 5. Follow the mathematical operations for each box.



GRAD SCHOOL ENERGY LEVELS

NO CAFFEINE

YES CAFFEINE

NO
SLEEP →

ZOMBIE

ROBOT

YES
SLEEP →

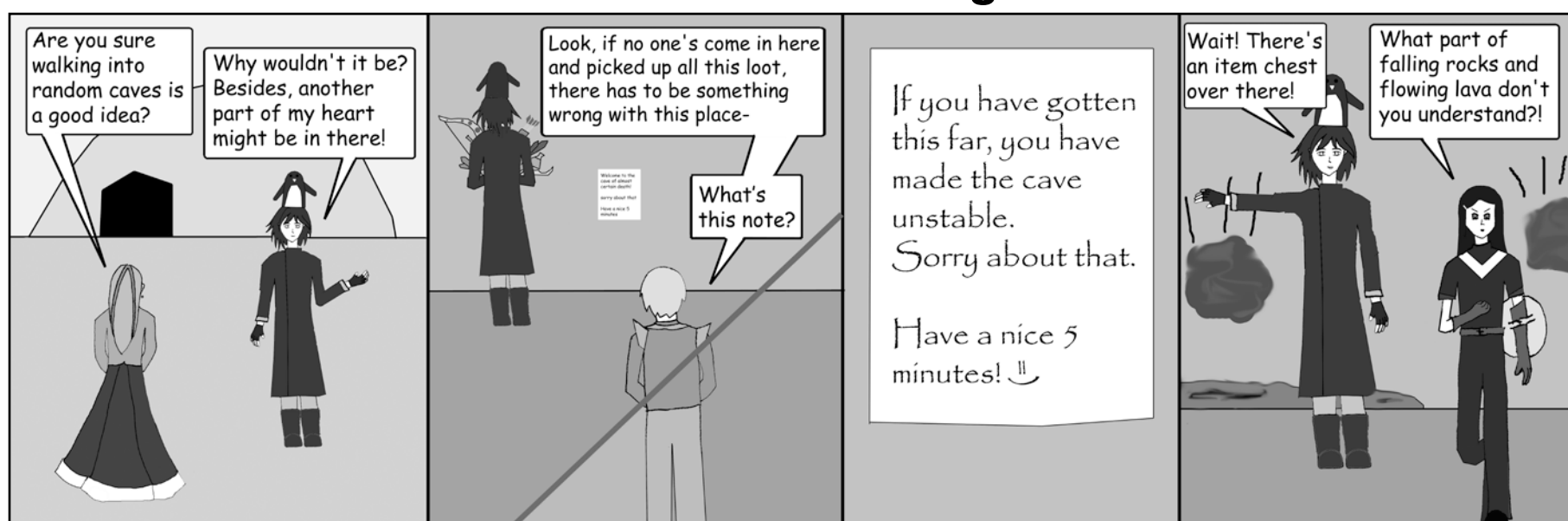
HUMAN

maybe you'll
graduate

MORGE CHAM © 2011

WWW.PHDCOMICS.COM

Somewhere on the Search for Meaning... by Letitia Li



Crossword Puzzle

Solution, page 13

ACROSS

- ACROSS**

 - 1 Silent signal
 - 8 Mayflower passenger
 - 15 Brightest star in Scorpius
 - 16 Bring to life
 - 17 Vaccaro and Lee
 - 18 Took turns
 - 19 Long, feathery scarf
 - 20 Ogden resident
 - 22 Ancient ointment
 - 23 Sugar cube
 - 25 Positive votes
 - 26 Latvian chess master
 - 27 Needle cases
 - 29 Pollution problem
 - 31 Gratify completely
 - 32 Group of seven
 - 34 Set aside
 - 36 City near San Diego
 - 38 Social Security pioneer
 - 41 Pager
 - 45 Hot pair in poker
 - 46 Oklahoma city
 - 48 Trunk tire
 - 49 Sch. org.
 - 50 Machinery parts
 - 52 "Auld Lang __"
 - 53 Whittle
 - 55 "Animal Farm" author
 - 57 Restroom sign
 - 58 Satan
 - 60 Least sloppy
 - 62 Make a connection with
 - 63 Period of peace
 - 64 Poet Siegfried
 - 65 Loud speaker
 - 68 Embroid cousins
 - 9 Fully reversed about
 - 10 Lang. course
 - 11 Crimebuster
 - 12 Drumming sound
 - 13 Repeat oneself
 - 14 Stuck one's nose in
 - 21 Procrastinate
 - 24 Climber's spikes
 - 28 Brief time periods
 - 30 Silver-tongued
 - 31 Soaks
 - 33 Tween 12 and 20
 - 35 Praiseful poems
 - 37 Ancient Greek poet
 - 38 Parts of rocker arms
 - 39 One of Mark Antony's wives
 - 40 Becomes fatigued
 - 42 Compensation
 - 43 Che Guevara's first name
 - 44 Input data again
 - 47 Corrects
 - 51 Falling ice

DOWN

 - 1 Jabbers
 - 2 Along the way
 - 3 Get hot under the collar
 - 4 Soak up some rays
 - 5 Pakistani tongue
 - 6 "Giant" ranch name
 - 7 Exam compositions

DOWN

- | | |
|----------------------------|-----------------------------|
| 1 Jabbers | 39 One of them |
| 2 Along the way | 40 Becomes fatigued |
| 3 Get hot under the collar | 42 Compensation |
| 4 Soak up some rays | 43 Che Guevara's first name |
| 5 Pakistani tongue | 44 Input data again |
| 6 "Giant" ranch name | 47 Corrects |
| 7 Exam compositions | 51 Falling ice |

1	2	3	4	5	6	7		8	9	10	11	12	13	14
15								16						
17								18						
19				20			21				22			
23			24		25							26		
27				28		29			30		31			
32					33		34			35				
			36			37								
38	39	40							41			42	43	44
45					46			47		48				
49						50			51		52			
53			54		55					56		57		
58				59				60			61			
62								63						
64								65						

- | | | | |
|----|--------------------------|---------------------------------|---------------------------|
| 54 | "Boola Boola"
singers | 55 Suspicious of
56 Past due | 59 Lennon's widow
61 X |
|----|--------------------------|---------------------------------|---------------------------|

By Amanda Aparicio

However, in an attempt both to not warrant myself a visit to the loony bin and to further leave the reputation of the MIT social capabilities in shambles, I shared my battle cry only with fellow victors. What a great feeling. But, I did not leave the battlefield sans scars, even though I had the ultimate shield

Besides this, first semester also has the power to change you from a happy, morning

Despite all of this and more (just read *mitfml.com*), I, and others, have survived,

10 websites you might not have heard of

Every once in a while, you run into someone who's lived in a particular city for a long time and knows her way around. She can tell you the best local restaurants, the coolest clubs, and which places to avoid at all costs (the real-life equivalents of *4chan.org*). I like to think of myself as that person — except for the Internet. So I might as well show everybody around. Here are ten good sites that you've probably never heard of:

1) TheFuckingWeather.com:

2) News.YCombinator.com:

3) RapGenius.com:

Self-described as “a rap lyrics encyclopedia that anyone can edit,” Rap Genius is different from other lyrics websites in that it lets you click on words and phrases in song lyrics, and it explains what they mean. An indispensable site — especially when The Far East Movement and their random inclusion of aircrafts model names that no one has ever heard of before are involved. Eminem and his minor celebrity references have just met their match.

4) StumbleUpon.com:

Basically, StumbleUpon is sort of like Pandora, except instead of introducing you to new music, it lets you find new websites based on your interests and which sites you've previously liked and disliked. Along with a Firefox Add-on, there are now also Android and iPhone apps. I hope StumbleUpon doesn't mess up your GPA too badly.

5) Scholar.Google.com:

Who said Vera Multi-Search is better than Google? Plus, if you're using an MIT IP address, Google Scholar will even direct you to the appropriate link when articles are available through MIT Libraries.

6) HDWhite.org/puzzle:

I still haven't finished it, but it's already one of my favorite puzzles of all time. Warning: it's hard.

7) DoINeedAFlashIntro.com:

This site provides useful advice for web designers and developers. All web designers should bookmark this site for reference purposes.

**8) HyperPhysics.Phy-Astr.Gsu.
edu/HBase/HFrame.html**

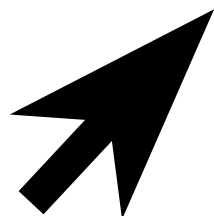
Along with the vast majority of the human population, I'm a visual learner, which is why the words in math and physics textbooks should be used to elaborate on the diagrams, not the other way around. That's what Georgia State University's physics website does. It even has Wikipedia-style links whenever it uses a previous concept in an explanation. The site was incredibly helpful during my freshman GRS.

**9/10) RotoWorld.com
and FootballOutsiders.com**

If you play fantasy football, *Rotoworld.com* is the place to go for news and analysis. I've searched through a lot of sites and listened to a lot of fantasy football analysts. Rotoworld's managing editor, Gregg Rosenthal, is the best fantasy football analyst. Period.

If you're looking for advanced metrics, Football Outsiders has the goods. If you want to be a fantasy football champion — and by being a champion, I mean turning the exciting and unpredictable world of sports into a mind-numbing exercise of number crunching — this is the site to go to.

www.stu





SAM RANGE—THE TECH
In order to print full color pages, the paper must pass through four separate presses, with cyan, magenta, yellow, and black layers aligning to produce images.



SAM RANGE—THE TECH
Papers are printed on continuous rolls of newsprint, which are later cut and folded in order.

How does *The Tech* get made?

Last Wednesday, we visited our printer in Auburn, MA, to see the issue from start to finish.



SAM RANGE—THE TECH
Robert D. Allen, Sales Manager at Mass Web Printing Co., displays a freshly-printed and folded black ink plate. Each plate contains the pattern for one color of ink for four pages of *The Tech*.



SAM RANGE—THE TECH
Workers at MassWeb adjust levers on each color press so ink is fed onto rollers such that each page receives sufficient but not excessive amounts of ink across the span of the printing plate.



SAM RANGE—THE TECH
A machine adds inserts to the inside of complete, folded papers.

"*Bucky*" explores the mystery of a genius's mind

When I invited a friend to see the play with me, he asked me who R. Buckminster Fuller was. My response was, "He's an architect, some kind of engineer ... I think."

All I knew about Fuller was that he was the designer of the geodesic dome and the origin of the names buckyball, fullerene, and buckminsterfullerene. I wanted to see the play to learn more about R. Buckminster Fuller.

But it ended up telling me more than I expected.

I felt as if I had entered a different world when I arrived at the American Repertory Theater. The lobby was fully decorated with mathematical equations, octahedrons, tetrahedrons and the like on the windows, and framed pictures of beautiful geodesic spheres by the ticket area. The atmosphere of the theater resembles a giant lecture room; one filled with warmth, personality, inspiration, and geometric shapes.

The play gave me a two-hour exploration of the eccentric and delightful world of Fuller's mind.

R. Buckminster Fuller: The History (and Mystery) of the Universe is a one-person show based on the life, work, and writings

American Repertory Theater

**Written and directed by
D.W. Jacobs**

Starring Thomas Derrah

**Multiple showings until
February 4**

of Richard Buckminster Fuller (1895–1983). Thomas Derrah's role depicts Fuller as the night's guest speaker who wants to share his life story — from his family to discoveries, from contemplation on nature as the solution to all designs to his perspectives on socioeconomic issues. It was an interesting performance: Derrah had to effectively deliver not only the human emotions and character of Fuller, but also the engineer-scientist-mathematician-mind. Derrah immersed himself in the world of Fuller as he recited line after line about synergy and beautiful physical structures. He moved around like a child, both physically and

mentally — imaginative, independent, curious. Derrah's performance made me wish I could meet the real Fuller when he was still alive.

The introduction about Fuller's childhood revealed his fascination with nature and natural intuition. His independence from all constraints imposed artificially by others foreshadows events in his life, including two expulsions from Harvard.

As far as humor is concerned, MIT students may appreciate some of it more than the rest of the audience. Jokes about gravity and pi made me feel at home. Derrah also engaged the audience, inviting them to sing along with him, to stand up and feel the earth rotate at 23 degrees off the axis with him. Occasionally, an impassioned Derrah moved around while speaking, the stage resembling an acid trip with floating tensegrity structures. What a great visual representation of Fuller's captivity.

The most important experience I took from the play was Fuller's life philosophy. After becoming unemployed and depressed before the start of his successful career as a revolutionary inventor, Fuller ponders: "What can one penniless person do on behalf of humanity?" Such a question would prompt any person to live and work to their full potential. Fuller was an engineer and a scientist, but for the sake of something larg-

er. He focused on the responsibility of scientific revolution and technology to make the world a better place: "We are here for problem-solving. Not to have problems out of the way in some stupid, sublime something called peace. We're here strictly for problem-solving, and the better you get at it, the more problems you're going to get to solve."

One warning: A hundred minutes of fluid monologue, no matter how worthy of your attention, might turn baffling and soporific. A cup of coffee during the intermission might solve that problem.

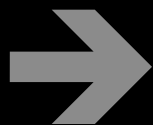
Derrah portrayed Fuller as a visionary, a designer of not only physical creations but also of ideas, his own life, the world, and the future. But whatever he was, I gained so much respect for this man without having to read a single book about him. I am grateful for the two hours of entertainment, education, and for the opportunity to meet him, even as a character in a play. This is one of the many lines in the play that I will keep close to my heart for the rest of my life: "You don't belong to you, you belong to the Universe."

Tip: Go online to look at the show times, but do not buy the tickets. Student Rush promises great seating for only \$15. All you have to do is get there 15 minutes before the play.



Seven
names as
valuable
as our own

You don't build a 200-year history of excellence in financial services without learning a few things. Like how to recognize and celebrate colleagues with exceptional qualities. And the importance of training and developing them throughout their careers. We are proud to welcome the seven MIT students who will be joining us full-time this summer. Congratulations to them on all their success.



jpmorgan.com/careers

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Molly McCartin

Jonathan Smith

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**Have humorous commentary about a campus topic?
Send 500 words and a pic to *cl@tech.mit.edu*.**



Some athletes consider transfer after varsity cuts

Student athletes, Director of Athletics recall the emotions of slashing varsity sports

Varsity cuts, from Page 1

Alpine Skiing Team when the cuts were made. She recalls the emotional morning of the announcement.

“Half of the team was crying. The other half had this sad look on their faces,” she said. Reddy had considered the varsity skiing team a second family whose bond was strengthened by living in a New Hampshire cabin together every IAP. When it came time for cuts to be made, she had a feeling her team was going to lose its varsity status.

“We kind of knew it was coming. Skiing is a very expensive sport and the size of the team versus cost per person was much higher than a lot of the other varsity sports,” she said.

Stephanie C. Leger ’11 and Elaine Y. Chin ’94, now both players on the Women’s Club Ice Hockey team, remember the surprise of the announcement. Chin, an alumni player on the club team at the time, found out about the cuts at the same time as most of the MIT community — when DAPER released its letter explaining the cuts to the public. Leger, who was on the varsity team, claimed that no one had any idea of the impending cuts during the season. “It was a bit of a shock,” she said.

Many athletes on the cut teams had planned to play varsity sports for the entirety of their MIT undergraduate career, including Riley E. Brandt ’11, current captain of the Men’s Club Hockey Team and a varsity member at the time of the cuts. “A big reason why a lot of students picked MIT was the opportunity to play their sport while they studied here,” he said.

Nicholas C. Swenson ’12, currently the Golf Club team president, had come to MIT expecting to play varsity golf. The initial frustration stemming from the cuts almost caused him to make a spur-of-the-moment decision to transfer out of MIT. After the cuts, Harvard’s golf coach said that

although Harvard was not accepting transfer students at the time, there was a possibility that an exception for Swenson could be made if he joined Harvard’s golf team.

“I don’t know how serious I was about transferring at the time. Looking back, I’m glad I didn’t,” he said.

Kristen D. Watkins ’11, now co-captain of the Women’s Club Gymnastics team, claimed that many members of the team were aware of the possibility of losing varsity status. Still, she felt that the cut upset many of the gymnasts who came to MIT to compete on a varsity level. She herself originally applied to MIT only after hearing of the varsity gymnastics program.

“I think for a lot of people it was kind of upsetting to come and choose this school and for [DAPER] to cut the reason they came here,” she explained.

Prospective students, too, were frustrated. As an incoming freshman at the time, Ryan J. Madson ’13 was not at MIT when the cuts were made, but he was still frustrated at not being able to compete on a varsity level for MIT’s Wrestling team as he had intended. “I was kind of disappointed that I didn’t get the opportunity [to compete in varsity],” he said.

Men’s Club Gymnastics President and former varsity team member Jacob T. Shapiro ’11, who described the cuts as “disappointing and frustrating,” said the team was confused about what to do next. “It wasn’t really clear what was going to happen with the team,” he said.

Although the initial announcement struck the Varsity Pistol team pretty hard, they were ready to move on about a week later, according to Pistol Club Team Captain Andrew K. Sugaya ’11. Sugaya had suspected the pistol team was going to be cut when DAPER sent out an e-mail to

members of the cut teams, requesting their presence at the April 23 meeting.

Emotions ran high even for MIT students not on varsity teams. After the announcement was made that cuts were imminent, but three weeks before the affected teams were announced, student-athletes from across MIT’s athletics programs staged a protest in Lobby 7. Over 100 students attended a DAPER question-and-answer session two days after the announcement was made, and outraged letters flooded the *Tech* Opinion inboxes. On April 13, students “kidnapped” Tim the Beaver at the inaugural Beaver Bowl event during DAPER’s annual spring Athletics Weekend, demanding that student opinion be heard and that the cuts be delayed at least one year. On April 24, the day after the sports to be cut were announced, the *New York Times* ran an article on the cuts, quoting a column from then-*Tech* opinion writer Ethan A. Solomon ’12 (now the *Tech* Editor in Chief) and then-varsity pistol coach Will Hart.

“MIT has a certain culture,” said Hart to the *Times*.

“The students need release. I hope they find something else that was as close to enjoyable as their sport was.”

“Put an emotion there, and it was there”

Soriero, too, recalls how difficult it was for her to make the announcement.

“There was a lot of disappointment, hurt, frustration, and anger. Put an emotion there, and it was there,” she said.

She reasoned that supporting 41 varsity teams had always been an issue for DAPER. However, when the economic recession hit the Institute, it was time for a budget cut. More than 50 percent of the DAPER budget at the time went to varsity programs, she said, so there was no way to avoid looking at varsity programs when making cuts.

She states that the department was still picking which teams to cut when they announced that such a decision was impending. She and the rest of her team wanted to make sure that the right amount of cuts were made so they would never have to make a similar decision again.

When considering cuts, the DAPER administration looked at every team, and not just from a cost perspective — although Soriero does admit that in many cases, cuts were made from the most expensive sports per participant. Soriero cites the DAPER Health and Vitality Report, an ongoing study that started collect-

ing data in 2003, as one source of information. The report broke down topics including roster size, competition, and other trends for each team. DAPER also considered the league each team was in.

“We had a number of [varsity] sports that are now club that were competing in a club league, or they were only competing against club sports,” she explained, like pistol.

“But we were trying to sustain them at a varsity level in terms of all the support services, coaching, compliance, etc. So if they were a club and if they continued to compete in the exact same conference they were in, they would have the same competitive opportunities as their counterparts.”

At the time of the cuts, there was a moratorium on the number of club sports. Ultimately, this moratorium was lifted to allow the cut varsity sports without club equivalents the opportunity to continue on as club sports.

Still, in the hours and days after the cuts were announced, few players on any team knew what to expect in the upcoming year.

“It was kind of just like [DAPER] left us to figure it out,” said Leger.

This is the first in a three-part series on the current status of MIT’s cut varsity sports.

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Solution to Sudoku

from page 7

6	8	5	7	1	2	9	3	4
9	3	4	8	6	5	7	1	2
7	2	1	3	4	9	8	6	5
5	7	8	1	2	4	6	9	3
2	4	9	6	3	8	5	7	1
1	6	3	5	9	7	2	4	8
8	5	6	4	7	1	3	2	9
4	9	7	2	5	3	1	8	6
3	1	2	9	8	6	4	5	7

Solution to Techdoku

from page 7

4	1	5	3	2
3	5	4	2	1
5	2	1	4	3
2	4	3	1	5
1	3	2	5	4

Solution to Crossword

from page 8

G	E	S	T	U	R	E		P	I	L	G	R	I	M
A	N	T	A	R	E	S		A	N	I	M	A	T	E
B	R	E	N	D	A	S		R	O	T	A	T	E	D
B	O	A		U	T	A	H	A	N		N	A	R	D
L	U	M	P		A	Y	E	S			T	A	L	
E	T	U	I	S		S	M	O	G		S	A	T	E
S	E	P	T	E	T		A	L	L	O	T	T	E	D
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T	O	W	N	S	E	N	D		B	E	E	P	E	R
A	C	E	S		N	A	H	A		S	P	A	R	E
P	T	A			C	A	M	S		S	Y	N	E	
P	A	R	E		O	R	W	E	L	L		M	E	N
E	V	I	L	O	N	E		N	E	A	T	E	S	T
T	I	E	I	N	T	O		D	E	T	E	N	T	E
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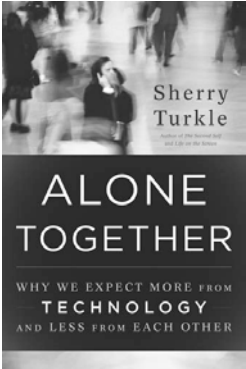
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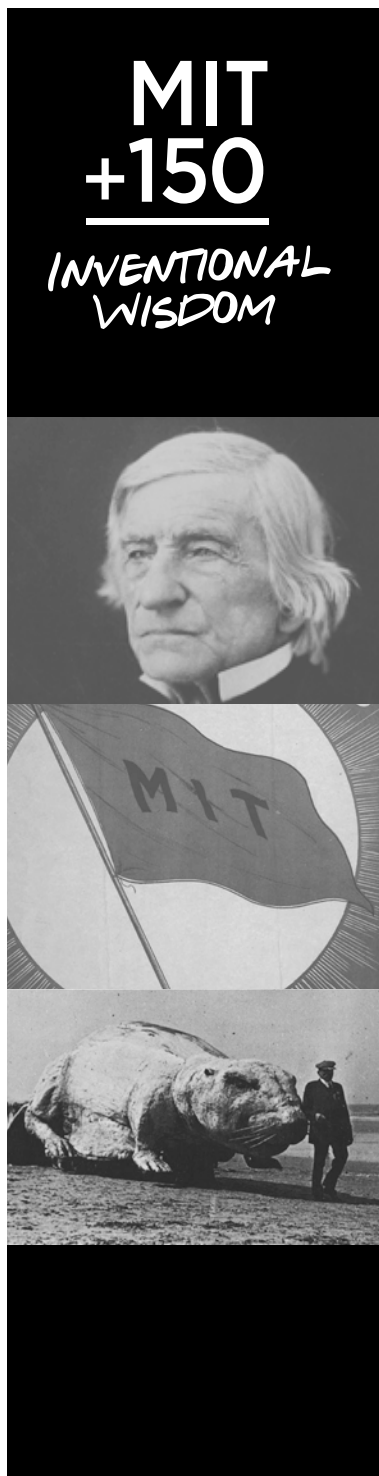
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Gates calls for final push to end polio

By Donald G. McNeil Jr.
THE NEW YORK TIMES

NEW YORK — On Monday, in a Manhattan town house that once belonged to polio's most famous victim, Franklin D. Roosevelt, Bill Gates made an appeal for one more big push to wipe out world polio.

Although that battle began in 1985 and Gates started making regular donations to the cause only in 2005, he has emerged in the last two years both as one of the biggest donors — he has now given \$1.3 billion, more than the amount raised over 25 years by Rotary International — and as the loudest voice for eradication.

As new outbreaks create new setbacks each year, he has given ever more money, not only for research but for the grinding work on the ground: paying millions of vaccinators \$2 or \$3 stipends to get pink polio drops into the mouths of children in villages, slums, markets and train stations.

He also journeys to remote Indian and Nigerian villages to be photographed giving the drops himself. Though he lacks Angelina Jolie's pneumatic allure, his lingering "world's richest man" cologne is just as aphrodisiacal to TV cameras.

He also uses that celebrity to press political leaders. Rich Gulf nations have been criticized for giving little for a disease that now chiefly affects Muslim children; last week in Abu Dhabi, United Arab Emirates, Gates and Crown Prince Sheikh Mohammed bin Zayed Al Nahyan jointly donated \$50 million each to vaccinate children in Pakistan and Afghanistan. In Davos, Switzerland, Gates and the British prime minister, David Cameron, announced that Britain would double its \$30 million donation. Last month, when the Pakistani president, Asif Ali Zardari, went to Washington for the diplomat Richard C. Holbrooke's funeral, Gates offered him \$65 million to initiate a new polio drive. Twelve days later, publicly thanking him, Zardari did so.

However, even as he presses forward, Gates faces a hard question from some eradication experts and bioethicists: Is it right to keep trying?

Although caseloads are down more than 99 percent since the campaign began in 1985, getting rid of the last 1 percent has been like trying to squeeze Jell-O to death. As the vaccination fist closes in one country, the virus bursts out in another.

In 1985, Rotary raised \$120 million to do the job as its year-2000

"gift to the world."

The effort has now cost \$9 billion, and each year consumes another \$1 billion.

By contrast, the 14-year drive to wipe out smallpox, according to Dr. Donald A. Henderson, the former World Health Organization officer who began it, cost only \$500 million in today's dollars.

Henderson has argued so outspokenly that polio cannot be eradicated that he said in an interview last week: "I'm one of certain people that the WHO doesn't invite to its experts' meetings anymore." Recently, Richard Horton, editor of The Lancet, the influential British medical journal, said via Twitter that "Bill Gates' obsession with polio is distorting priorities in other critical BMGF areas. Global health does not depend on polio eradication." (The initials are for the Bill & Melinda Gates Foundation.)

And Arthur L. Caplan, director of the University of Pennsylvania's bioethics center, who himself spent nine months in a hospital with polio as a child, said in an interview, "We ought to admit that the best we can achieve is control."

Those arguments infuriate Gates. "These cynics should do a real paper that says how many kids they're really talking about," he said in an interview. "If you don't keep up the pressure on polio, you're accepting 100,000 to 200,000 crippled or dead children a year."

Right now, there are fewer than 2,000. The skeptics acknowledge that they are arguing for accepting more paralysis and death as the price of shifting that \$1 billion to vaccines and other measures that prevent millions of deaths from pneumonia, diarrhea, measles, meningitis and malaria.

"And think of all the money that would be saved," Gates went on, turning sarcastic. "It'd be like 5 percent of the dog food market in the United States."

(Americans spend about \$18 billion a year on pet food, according to the American Pet Products Association.)

Both he and the skeptics agree that polio is far harder to beat than smallpox was.

One injection stops smallpox, but in countries with open sewers, children need polio drops up to 10 times.

Only one victim in every 200 shows symptoms, so when there are 500 paralysis cases, as in the recent Congo Republic outbreak, there are 100,000 more silent carriers.



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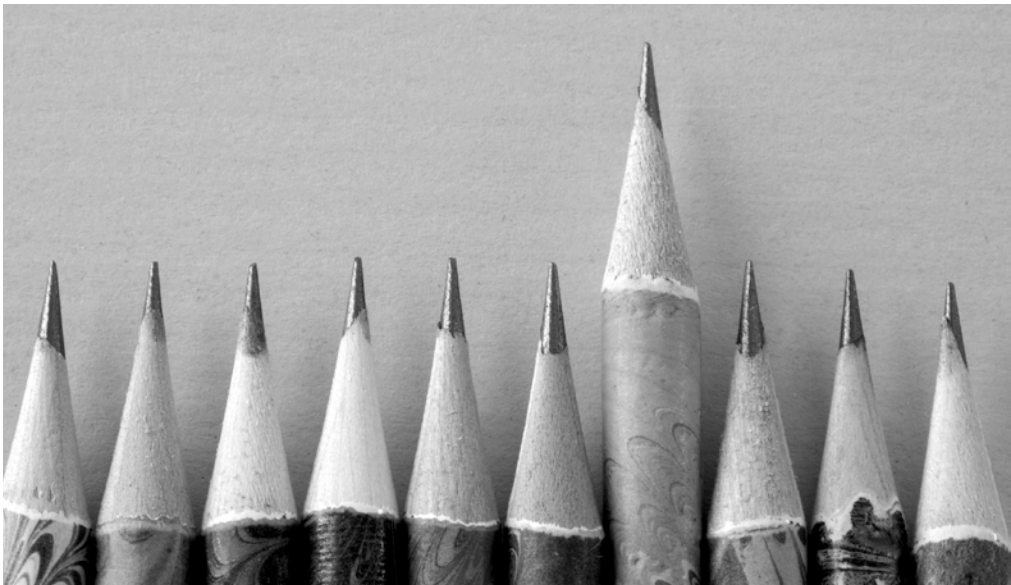
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US pushes nuclear energy, but its projects lag

Only two of four top reactor projects moving forward, though politicians favor them

By **Matthew L. Wald**
THE NEW YORK TIMES

WASHINGTON — In his State of the Union address, President Barack Obama proposed giving the nuclear construction business a type of help it has never had, a role in a quota for clean energy. But recent setbacks in a hoped-for “nuclear renaissance” raise questions about how much of a role nuclear power can play.

Of four reactor projects identified by the Energy Department in 2009 as the most likely candidates for federal loan guarantees, only two are moving forward. At a third, in Calvert Cliffs, Md., there has been no public sign of progress since the lead partner withdrew in October and the other partner said it would seek a replacement.

And at the fourth, in Texas, a would-be builder has been driven to try something never done before in nuclear construction: finding a buyer for the electricity before the concrete is even poured. Customers are not rushing forward, given that the market is awash in generating capacity and an alternative fuel, natural gas, is currently cheap.

“The short answer is, there has to be a market for the power,” said John Reed, an investment banker who specializes in nuclear projects. “That’s the most immediate hurdle these projects have to get over.”

Yet there is a fairly sturdy political consensus in favor of building more reactors. By including nuclear power in a proposed “clean energy standard” shifting the electric system away from conventional coal and gas, whose emissions contribute to global warming, the Obama administration is seeking to stoke such support.

Many Democrats and most Republicans in Congress back nuclear construction, as do local officials in most places where reactors have been proposed.

Sen. Lamar Alexander, R-Tenn. and one of the Senate’s strongest proponents of nuclear power, suggests Obama should make building 100 reactors in the next 20 years a national priority, both for en-

ergy security and to limit climate-changing emissions.

But for now, he acknowledges, the economics are not in place. “Right now, it’s stuck,” he said of the planned nuclear revival.

Some challenges are not peculiar to the nuclear sector. All forms of clean energy, including solar and wind power, are undercut to some extent by the cheap price of natural gas and the surplus in generating capacity, which is linked partly to the recession. And federal caps on carbon dioxide emissions from coal- and gas-burning plants, which would benefit clean energy

sources, are not expected until 2012.

But some obstacles are specific to the nuclear industry, like the ballooning cost estimates for construction of reactors, which are massive in scale. Even when projects are identified as prime candidates for federal loan guarantees, some investment partners turn wary.

“All that uncertainty creates an incentive for you to wait,” said Joseph Aldy, who was a special assistant to Obama until December, said of the nuclear projects.

To counter the uncertainties, Alexander and others have arranged

substantial help for the industry. The Nuclear Regulatory Commission has been working for more than 15 years to streamline reactor licensing to cut construction time and to reduce risk. And the 2005 Energy Policy Act provided money for loan guarantees, subsidies for production from the first few reactors and insurance against regulatory delays.

Industry executives say with those changes and the financial help, they had what they needed to build after a gap of three decades. By 2008, the NRC had 15 applications for new nuclear plants in hand

and expected 15 more, and it asked Congress for budget increases for personnel to handle the flood.

Across from commission headquarters, in Rockville, Md., workers are now digging a foundation for a \$131 million, 14-story office tower for 1,500 employees to handle an anticipated flood of applications. But many of the proposed reactors are fading.

The four projects identified by the Energy Department after the 2005 act as the strongest candidates to share a \$18.5 billion pool of loan guarantee money underline the difficulties.



Matthew Mazzotta, UAF “The Buscycle Project” Funded in part by the Council for the Arts at MIT, 2006

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SLOPE, UAAP, and DUE to finalize plan by February

Students stand by REX; DormCon plans to talk with Norman, Clay about shortening Orientation

Orientation, from Page 1

that the meeting is open to the MIT community and will focus on REX and Orientation. “People should come,” Johnson said.

At the meeting, DormCon will be discussing the next steps in approaching the UAAP and the Office of the Dean for Undergraduate Education (DUE) about the proposal to shorten Orientation. According to Johnson, DormCon plans to meet with Clay and Norman.

Yesterday, a group of students protesting the shortening of REX handed out flyers at the class registration tables in DuPont. The flyers stated that “drastic, unjustified cuts to orientation are afoot, threatening everything from dorm culture to academics.”

Moving forward with orientation changes

In the coming weeks, the Student Life Orientation Programs and Experiences committee, or SLOPE, will work with the UAAP and DUE to determine a final plan for the reduction of orientation. SLOPE includes representatives from DormCon, UA, FSILGs, and SaveTFP.

“I believe communication by all stakeholders is very important and I am committed to it,” Hastings said in an e-mail interview with *The Tech*. Hastings advised students to address any concerns they may have with the proposed changes to their SLOPE representatives.

According to Norman, the UAAP and DUE are working on a schedule for all administration-run events, including the Advanced Standing Exams, the Math Diagnostics Test, and Convocation. The remaining blocks of free time will be dedicated to student-run activities, including REX.

According to Hastings, the UAAP has been conducting background studies to form the proposal, including meetings with a faculty advisory committee, DSL, International Students Office, Housemasters, MIT Medical, DUE, and the UA emergency meeting).

Students voiced concern that by reducing orientation by two days, less time would be available for official REX activities.

Reasoning behind the change

Hastings acknowledged that shortening Orientation will “save resources” for MIT. However, he identified the recommendations of the 2006 Task Force on the Educational Commons Subcommittee as the main catalyst behind the proposed reduction of Orientation.

In its final report, the task force recommended that “the Chancellor should convene a faculty committee to examine first-year orientation and ensure a more equal balance among student life, academics, and research. As part of this effort, consideration should be given to the impact of the new pre-orientation first-year programs and how they contribute to the important intellectual goals of first-year orientation.”

In the 2008 Educational Commons Subcommittee Final Report, there was no mention of reviewing, improving, or changing orientation. The Institute-Wide Planning Task Force’s Final Report also did not recommend shortening Orientation.

Norman said the decision to shorten Orientation was based on a multitude of reasons, including recommendations from the Task Force on the Educational Commons Subcommittee and the Institute-Wide Planning Task Force.

In response to the Institute budget cuts, the DUE formed the Working Group on First Year Programs, which recommended the reduction of Orientation by three days. Hastings said this idea was “concurrent” with the ideas presented by the task force.

“Given we already have the longest orientation period among our peers (including the pre-orientation programs), it made most sense to look at reducing the total amount of time,” Hastings said.

Students stress importance of REX

On Jan. 15, Modi, UA Vice President Sammi G. Wyman ’11, Norman, and Associate Dean of the UAAP Elizabeth C. Young met to discuss how to present the proposal to MIT students.

“We jointly decided that a special meeting of the Senate would be a good way to understand the

changes and would provide a structure for giving feedback,” Modi said to *The Tech*.

He praised Norman for being candid about the issue. “It’s good having someone who is so upfront,” Modi said.

Norman acknowledged that students are upset about the changes, but added, “We have their [students] best interest in mind.”

Johnson met briefly with Norman on Monday, Jan. 24. According to Johnson, Norman said that the events and purpose of REX would remain untouched. At that time Johnson did not think major changes could happen to REX.

Johnson showed concern over the possibility of REX being shortened. “Choosing a dorm is one of the most important decisions students will make during their four years here since it affects them both academically and socially,” Johnson said.

Norman also believes that REX is an important asset to Orientation. “Freshman need to find a community where they feel they belong,” Norman said.

In the past, Johnson acted as a REX chair and was able to see first-hand how greatly the event impacted students. “[REX is] a great opportunity to learn about the cultures instead of relying on the stereotypes,” Johnson said.

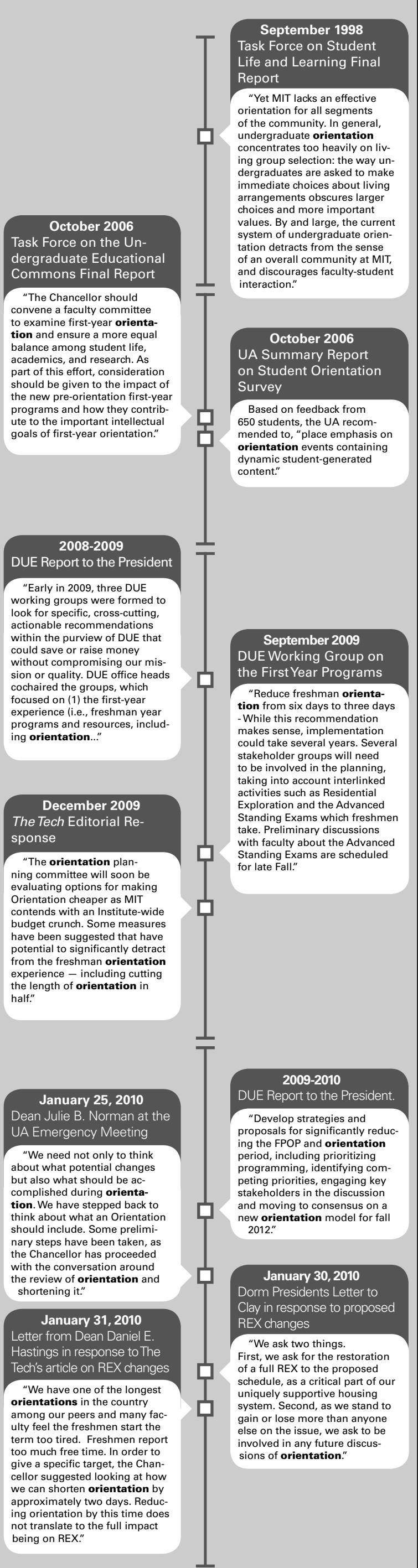
Alexander A. Penn ’12, incoming president of Burton Conner, also expressed concern over REX being shortened. “Twenty-four hours isn’t enough time to get to know people and figure out if you want to live with them for the next four years.”

Penn believes that REX is an essential part of choosing a residence because it allows freshmen to meet upperclassmen in the dorms. “It is hard to get to know a dorm through i3 videos and pamphlets.”

Last year, 1,068 freshmen participated in REX. About 250, or 23.4 percent, of those freshmen entered the readjustment lottery, and approximately 50 percent of those who entered the lottery moved to a new dorm.

This past REX, more than 250 events were registered for REX. From Saturday to Monday on that weekend, approximately 58 events were held each day.

Freshman orientation through the years



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2010's defining moments

World Cup, LeBron move made the year

By Nidharshan Anandasivam

A few years from now, we will look back on 2010 and remember only certain moments in the world of sports — those instances of great influence, moments that changed the history and impacted the future of sports.

Here is part one of the unforgettable sports moments of 2010 that I think will withstand the test of time:

1. The World Cup and the Swarm of Bees (at least their sounds)

Spain claimed its first World Cup title by defeating the Dutch in the World Cup Final during the waning minutes of extra time with Andres Iniesta's absolute blast directed towards the side netting. After tremendous expectations and unfortunate heartbreaks in each of the previous World Cups, Spain showed the world it was finally ready to hoist the trophy as the best team in the world.

Opposing teams were made weary and audiences were electrified by the passing execution among the Spanish defenders and midfielders, which was nothing less than impressive, as Spain kept the ball in its possession throughout most of its games. But Spain's victory won't be what fans remember most about the World Cup.

When people think back to the time they watched the 2010 World Cup, some may remember a struggling Italy unable to make it to the knockout stages for a potential repeat championship, or an internally divided France filled with strikes and resignations after the expulsion of their star striker Nicolas Anelka. And others may remember the vicious personality of Argentina's coach and soccer legend Diego Maradona, or the huge upset that resulted from the comeback of the Netherlands over mighty Brazil.

But no one who watched the World Cup at least once could forget the acoustic uniqueness of this event in South Africa. As soon as you turned on the TV and you heard the bees, you knew what it was. Many people argued that the vuvuzelas were a distraction at best, while others saw them as the pride of the host

nation. Either way, the sound of a vuvuzela will forever be associated with and distinguish the 2010 World Cup from all the rest.

2. The Decision ("Wait a minute, he is on that team now?!")

After LeBron James joined the Cleveland Cavaliers as the number one pick in the 2003 NBA Draft, it seemed like he would showcase his talent early, develop into one of the premier players in the league, and create a dynasty in Cleveland, especially considering that he was born and raised in Ohio. The first two happened. But the third, not so much.

No one who watched the World Cup at least once could forget the acoustic uniqueness of this event in South Africa.

Becoming Rookie of the Year in 2003-04 and the NBA's most valuable player in 2008-09 and 2009-10, James transformed into a rising superstar, making the All-NBA team and the All-Star game every year since 2005. But as a free agent in 2010, James decided to leave the adoring fans of Cleveland and join Dwyane Wade and Chris Bosh in Miami. Now, with superstars James and Wade on the same team, it is nearly impossible for defenses to contain the penetration of the Heat into the paint. The athleticism and skill of Wade and James has been shown to be just too much to handle.

LeBron's move to Miami may have resulted from an intense craving for a "better chance" at a championship or a general disgust with the Cavaliers never winning it all. Either way, this single move has had a tremendous impact so far — contributing to the improved versatility of the Miami Heat and the abysmal regular season record of the Cleveland Cavaliers — and it promises to make history in the near future.

Next issue: The Wimbledon Epic and the Saints Come Home.

UPCOMING HOME EVENTS

Wednesday, February 2

Women's Basketball vs. Babson College

7 p.m., Rockwell Cage

SPORTS SHORTS

Yurkerwich sets sights on skiing regionals

MIT Skiing finished their IAP Training Camp with races in giant slalom at Gunstock on Friday and slalom at

Blackwater on Saturday. Highlights from Friday's race include a personal second best USSA points race for Jonathan D. Allen '14, who finished

62nd for the men; a huge personal improvement for Alix M. de Monts '13, who finished 60th for the women; and a top points race for Jennifer L. Hawkin, who finished 66th. MIT's third woman was Sarah J. Laderman '12 in 71st. Jillian R. Reddy '11 did not finish. The men's remaining scorers were Jason D. Pier '13 in 28th, Michael J. Yurkerwich '11 in 50th, and Joshua Walker CME in 65th.

Saturday's race saw a better show-

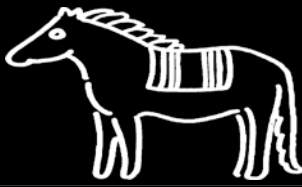
ing from the entire team. Chyleigh J. Harmon '14 led the women's team, finishing 51st. Behind her both Reddy and Hawkin had personal best USSA points races, coming in 73rd and 75th, respectively. Rounding out their scoring was Laderman in 77th. De Monts did not finish her second run. For the men's team, Allen and Walker also had personal best race results. They finished 59th and 60th while Pier came in 28th.

Yurkerwich earned another crucial top-25 finish, placing 18th. He is in strong contention for an individual spot at Regionals this season. The results depend on the fifth place team in the league: If the men's team from the University of Massachusetts is able to beat that from the University of Connecticut by a total of two places over the final two upcoming races, Yurkerwich will represent the McConnell Division. (If UConn finishes ahead of UMass, an individual from UMass will go instead.) Yurkerwich will know the results after one more slalom and one more giant slalom, which will be held at Wildcat in New Hampshire this weekend.

—Alexis Dale, Team Representative

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MIT COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE LABORATORY

2010-2011

Dertouzos Lecture Series

Date: Thursday, February 3, 2011
Venue: MIT Stata Center, Building 32-123/Kirsch Auditorium
Time: 4:00-5:00pm

Green IT: Myth, Mirage, or Reality?

Abstract: It seem like just about everyone is talking about "Green IT" these days. But what is it? Can IT be "green"? This talk will discuss what Google is doing to make its servers and data centers more sustainable, as well as the prospects for future improvements. It will also touch on ways in which IT can be used to help make the rest of the world more sustainable.

Biography: Bill Weihl is Green Energy Czar at Google, where he leads engineering efforts in renewable energy and energy efficiency, and also manages the company's carbon-neutral commitment. He helped create the RE<C initiative, which is driving rapid innovation in renewable energy technology to make renewable electricity cost-competitive with coal-fired electricity, leveraging internal R&D, research grants, investments in start-ups, and policy work. He led the effort in Google to co-found the Climate Savers Computing Initiative, which has galvanized the industry to accelerate progress in making computing devices more energy efficient (with help from MIT as one of the early members!). His group also developed Google PowerMeter, which is bringing near-real-time energy information to residential consumers.

Dr. Weihl has extensive business and technical experience in high-tech, including ten years as a professor of Computer Science at MIT, five years as a research scientist at Digital's Systems Research Center, and five years as Chief Architect and then CTO of Akamai Technologies. He received his Ph.D. in 1984 from MIT, where he worked as a graduate student on the Argus project in Prof. Liskov's research group. In fall of 2009, he was named one of Time Magazine's 2009 Heroes of the Environment in recognition of the work he and his colleagues are doing at Google.

Hosts: Frans Kaashoek, CSAIL

For more information: www.csail.mit.edu or 617.253.0145



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